

# Clement Wan

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## About Me

Incoming computer science PhD student training to solve research problems in mathematical logic and its applications. In particular, I am interested in universal algebra and programming language theory.

## Education

<b>PhD in Computing Science</b> <i>studying Theory of Computing and Language Theory at Simon Fraser University</i>	Starting Sept 2023
<b>Master of Mathematics</b> <i>studying Pure Mathematics at the University of Waterloo</i>	2021-2022 CGPA: 88.67/100
<b>BASc in Engineering Science</b> <i>studying Math, Stats and Finance at the University of Toronto</i>	2015-2021 CGPA: 3.54/4.0

## Languages

Python, PostgreSQL, MATLAB, Java, C, C++, Verilog, ARM Assembly

## Work Experience

<b>Graduate Teaching Assistant</b> <i>University of Waterloo</i>	Sept 2021 - Aug 2022
<ul style="list-style-type: none"><li>As grading team leader, distributed grading work, monitored for common student errors, and liaised with students, teaching team, and course coordinator</li><li>Evaluated student assessments and provided feedback to students in first, second, and third year undergraduate level mathematics courses</li></ul>	
<b>Market Data Analyst</b> <i>Independent Electricity System Operator (IESO)</i>	May 2018 - Apr 2019
<ul style="list-style-type: none"><li>Monitored Ontario's wholesale electricity market by analyzing price, bid, and offer data using Pandas, PostgreSQL, and MATLAB in support of market oversight</li><li>Provided data analysis for two major market investigations resulting in over \$20 million in compliance payments</li></ul>	
<b>Research Assistant (Volunteer)</b> <i>University of Toronto (Kundur Research Group)</i>	May 2017 - August 2017
<ul style="list-style-type: none"><li>Independent study and presentation of machine learning concepts to research group</li><li>Performed a literature review of recent developments in machine learning techniques</li></ul>	
<b>Research Assistant</b> <i>University of Toronto (Hatton Lab)</i>	May 2016 - August 2016
<ul style="list-style-type: none"><li>Fabricated microfluidic devices for bio-inspired micro-structured surface laboratory research</li><li>Programmed a microcontroller for a device with switchable surface wetting properties</li></ul>	
<b>Projects</b>	
<b>Data Pipeline Monitoring</b> <i>University of Toronto</i>	Sept 2019 - Dec 2019
<ul style="list-style-type: none"><li>Developed data pipeline monitoring tools in collaboration with Sanau, a machine learning startup</li><li>Showcased the application of the tool on a sample dataset visualizing notable statistical attributes</li></ul>	
<b>Autonomous Robot Team</b> <i>University of Toronto</i>	Sept 2016 - Apr 2017
<ul style="list-style-type: none"><li>Designed and built an electromechanical autonomous bottle-sorting robot with electronic interface</li><li>Planned and implemented robot microcontroller processes and systems control</li></ul>	
<b>Aerogrow Team</b> <i>Institute for Leadership Education in Engineering</i>	Nov 2015 - May 2016
<ul style="list-style-type: none"><li>Created a prototype and business plan for residential aeroponic units.</li><li>Won 2nd Place in ILead's social innovation challenge.</li></ul>	